### PATENT COOPERATION TREATY



# **PCT**

# INTERNATIONAL PRELIMINARY EXAMINATION REPORT

(PCT Article 36 and Rule 70)

Applicant's or agent's file reference 663777	FOR FURTHER ACTION See Notification of Transmittal of International Preliminary Examination Report (Form PCT/IPEA/416)						
International application No.	International filing date (day/r	nonth/year)	Priority date (day/month/year)				
PCT/JP2003/004681	14 April 2003 (14.04	.2003)	15 April 2002 (15.04.2002)				
International Patent Classification (IPC) or n A01H 1/00, C12N 15/09	national classification and IPC						
Applicant PH	IYTOCULTURE CONTR	OL CO., L	I'D.				
This international preliminary exame and is transmitted to the applicant and th		l by this Intern	national Preliminary Examining Authority				
2. This REPORT consists of a total of	sheets, includi	ng this cover s	sheet.				
amended and are the basis for 70.16 and Section 607 of the	or this report and/or sheets conta c Administrative Instructions und	ining rectification	ion, claims and/or drawings which have been ations made before this Authority (see Rule				
These annexes consist of a to	otal of sheets.						
3. This report contains indications rela	ating to the following items:						
I Basis of the report	I Basis of the report						
II Priority	II Priority						
III Non-establishment	of opinion with regard to novel	ty, inventive s	tep and industrial applicability				
IV Lack of unity of in	vention						
V Reasoned statemen	V Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement						
VI Certain documents	cited		1				
VII Certain defects in t	he international application						
	Octobra observations on the intermedianal analization						
Det Caldinia City I am I	D.L.	of completion	of this report				
Date of submission of the demand		Date of completion of this report					
05 November 2003 (05.	11.2003)	13 F	February 2004 (13.02.2004)				
Name and mailing address of the IPEA/JP	Autho	orized officer					
Facsimile No	Teler	hone No.					

Form PCT/IPEA/409 (cover sheet) (July 1998)

Translation

## INTERNATIONAL PRELIMINARY EXAMINATION REPORT

International application No.

PCT/JP2003/004681

I. Basis of the report	
1. With regard to the elements of the international application:*	
the international application as originally filed	
the description:	
pages	, as originally filed
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pages, filed with the	<del></del>
the claims:	
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pages, as amend	, as originally filed
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the drawings:	
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the sequence listing part of the description:	•
pages	, as originally filed
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2. With regard to the language, all the elements marked above were available or furn the international application was filed, unless otherwise indicated under this item. These elements were available or furnished to this Authority in the following language the language of a translation furnished for the purposes of international search the language of publication of the international application (under Rule 48.30 the language of the translation furnished for the purposes of international or 55.3).	age which is: h (under Rule 23.1(b)). b)).
3. With regard to any nucleotide and/or amino acid sequence disclosed in a preliminary examination was carried out on the basis of the sequence listing:	he international application, the international
contained in the international application in written form.	
filed together with the international application in computer readable form.	
furnished subsequently to this Authority in written form.	
furnished subsequently to this Authority in computer readable form.	
The statement that the subsequently furnished written sequence listing international application as filed has been furnished.	does not go beyond the disclosure in the
The statement that the information recorded in computer readable form i been furnished.	s identical to the written sequence listing has
4. The amendments have resulted in the cancellation of:	
the description, pages	
the claims, Nos.	
the drawings, sheets/fig	
5. This report has been established as if (some of) the amendments had not bee beyond the disclosure as filed, as indicated in the Supplemental Box (Rule 70.	n made, since they have been considered to go 2(c)).**
* Replacement sheets which have been furnished to the receiving Office in response t in this report as "originally filed" and are not annexed to this report since t and 70.17).	ney do not contain amendments (Rule 70.16
** Any replacement sheet containing such amendments must be referred to under item I	and annexed to this report.

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v.	Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability;
	citations and explanations supporting such statement

1. Stateme	ent			
Nove	elty (N)	Claims	1-15	YES .
		Claims		NO
Inver	ntive step (IS)	Claims		YES
•		Claims	1-15	NO NO
Indu	strial applicability (IA)	Claims	1-15	YES
		Claims		NO

#### 2. Citations and explanations

- Document 1: WO 00/63400 A (The Samuel Roberts Noble Foundation), 26 October 2000
- Document 2: Tatsuo Akai et al., "Takou-shitsu ceramic board ni yoru shokubutsu saibaihou," SHITA Rep., no. 14, pages 34-47 (1998)

#### (1) Claims 1 to 13.

The invention described in claims 1 to 13 does not involve an inventive step in the light of documents 1 and 2 cited in the international search report.

Document 1 discloses a feature wherein a plant cultivated in a pot containing soil is transformed using an in planta method of immersing the plant in a carrier solution holding a gene for the transformation, and a feature wherein if soil seems likely to fall out of the pot when it is being immersed, the pot is wrapped in fabric or the like in order to prevent the soil from falling out. Document 2 discloses a method for cultivating a plant wherein water and nutrients are provided to the surface of a microporous material in which seeds are germinated and grown.

The invention disclosed in document 1 addresses the problem of soil falling out of a pot, and applying the non-soil cultivation method disclosed in document 2 as a

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means of solving said problem instead of holding loose soil in place with fabric or the like is not recognized as presenting any particular difficulty. Moreover, a person skilled in the art could easily predict the effect of doing so in the light of the disclosures in documents 1 and 2.

### (2) Claims 14 and 15

The invention described in claims 14 and 15 does not involve an inventive step in the light of documents 1 and 2 cited in the international search report.

As discussed in item (1), a person skilled in the art could easily conceive of applying the non-soil cultivation method disclosed in document 2 to the in planta method disclosed in document 1, and thus, applying said non-soil cultivation method during a selection stage for plant transformation also falls within the range of features of which a person skilled in the art could easily conceive. Moreover, a person skilled in the art could easily predict the effect of doing so in the light of the disclosures in documents 1 and 2.